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Expression vector contg. dicistronic unit encoding foreign protein and fusion protein comprising selection and amplification markers - provides high yields of pure foreign protein e.g. blood coagulation factors

Patent Assignee: IMMUNO AG (IMMO); BAXTER AG (BAXT)

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Number of Countries: 015 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 711835	A1	19960515	EP 95890202	A	19951109	199624 B
CA 2162770	A	19960515	CA 2162770	A	19951114	199637
AT 9402099	A	19970415	AT 942099	A	19941114	199721
AT 403167	B	19971015	AT 942099	A	19941114	199746
US 6114146	A	20000905	US 95557210	A	19951114	200044

Priority Applications (No Type Date): AT 942099 A 19941114

Cited Patents: 3.Jnl.Ref; EP 294910; WO 9001550; WO 9208796; WO 9303143; WO 9405785; WO 9424870

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 711835	A1	G	61	C12N-015/62	
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Designated States (Regional): AT BE CH DE DK ES FR GB IE IT LI NL SE

CA 2162770	A			C12N-015/85	
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AT 9402099	A			C12N-015/62	
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AT 403167	B			C12N-015/62	Previous Publ. patent AT 9402099
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US 6114146	A			C12P-021/02	
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Abstract (Basic): EP 711835 A

Expression plasmid contg. a dicistronic transcription and translation unit including a sequence for a foreign protein (A) and a sequence for a fusion protein (B), consisting of at least one selection marker (SM) and at least one amplification marker (AM), is new. Also new are: (1) (B) consisting of highly amplified AM and SM; (3) transfected eukaryotic cells contg. any of the new plasmids; (4) (A) produced by such cells; and (5) use of SK-HEP-1 cells as expression vehicles for prothrombin, factor VIII (or its dB928 mutant), factor IX, protein C, von Willebrand factor and/or serum albumin.

ADVANTAGE - These plasmids provide (A) in high yield and purity, with partic. high content of active protein, even where this requires post-translation modification for activity. They ensure a very high ratio of expressing clones to total clones and surprisingly high initial expression of (A).

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Title Terms: EXPRESS; VECTOR; CONTAIN; DI; UNIT; ENCODE; FOREIGN; PROTEIN; FUSE; PROTEIN; COMPRISE; SELECT; AMPLIFY; MARK; HIGH; YIELD; PURE; FOREIGN; PROTEIN; BLOOD; COAGULATE; FACTOR

Derwent Class: B04; D16

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C12N-005/10; C12N-005/16; C12N-005/22; C12N-009/64; C12N-009/74;
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